

L 1154-66

ACCESSION NR: AP5016343

without dealing with the state equations; (2) The nomographs given in the article can essentially cut the computation work; (3) The wet-steam shockwaves are qualitatively similar to the shockwaves in a single-phase liquid (strong and weak solutions, maximum angle-of-flow deviation). Orig. art. has: 2 figures and 26 formulas.

ASSOCIATION: none

SUBMITTED: 06Jan65

ENCL: 00

SUB CODE: PR

NO REF SOV: 004

OTHER: 002

Card 2/2

L 00490-66 EWP(m)/EWT(1)/FCS(k)/EWA(d)/EWA(1)

ACCESSION NR: AP5020562

UR/0294/65/003/004/0600/0608
532.529.5

31
30
B

AUTHOR: Stepanchuk, V. F.; Salтанov, G. A.

TITLE: Calculation of transverse skips in condensation

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 4, 1965, 600-608

TOPIC TAGS: condensation reaction, fluid flow, supercooling, steam

ABSTRACT: The article presents a method for the calculation of transverse skips in condensation in the flow of supercooled steam in ultrasonic nozzles. In this theoretical treatment, the following assumptions were made: 1) the accelerated flow of steam permits deep supercooling, 2) initial condensation occurs only in condensation skips, 3) the drops of moisture which appear in the condensation skips have the same velocity and direction of movement as the main flow of steam, and 4) the supercooled steam before the condensation skip and the saturated steam after the condensation skip obey the Clapeyron equation. The region of values of M_1 near unity is a forbidden zone for condensation skips. These skips

Card 1/2

L 00490-66

ACCESSION NR: AP5020562

can be strong or weak and they can exist in a comparatively narrow region of M_1 numbers-- between a minimal value of M_1 and the case where the state after the skip corresponds to dry saturated steam. Orig. art. has: 14 formulas and 2 figures

ASSOCIATION: Moskovskiy energeticheskij institut (Moscow Power Institute)

SUBMITTED: 23Apr64

ENCL: 00

SUB CODE: ME, GC

NR REF SOV: 008

OTHER: 005

Card 2/2

STEPANCHUK, V.F. (Moskva); SALTANOV, G.A. (Moskva)

Methods for calculating condensation steps in a flow of wet
steam in a wide range of pressures. Izv. AN SSSR. Energ. i
transp. no.3:105-110 My-Je '65.

(MIRA 18:12)

1. Submitted January 6, 1965.

DEYCH, M.Ye., doktor tekhn. nauk, prof.; STEPANCHUK, V.F., kand. tekhn.
nauk, dotsent; MAYORSKIY, Ye.V., inzh.; SALTANOV, G.A., inzh.

Use of an optical method in studying the flow of wet steam.
Izv. vys. ucheb. zav.; energ. 8 no.11:87-91 N '65.

(MIRA 18:11)

1. Moskovskiy ordena lenina energeticheskiy institut.

L 25144-65

ACCESSION NR.: AR4046139

S/0275/64/000/008/A047/A047

SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodnyy tom, Abs. 8A310

AUTHOR: Stepanchuk, V. P.

TITLE: Putting in operation and aligning a 25-Mev betatron

CITED SOURCE: Sb. Elektron. uskoriteli. M., Vyssh. shkola, 1964, 177-180

TOPIC TAGS: betatron, betatron alignment

TRANSLATIONG: In the course of putting in operation and aligning a 25-Mev betatron, some experiments were conducted intended to improve its parameters. To simplify the betatron alignment, two additional turns were used; one of them placed under and the other over the vacuum chamber; the turns had an

azimuth and radial location of ...

SUB CODE: NP

ENCL: 00

Card 1/1

I 64796-65 EWT(m)/EPA(w)-2/EWA(m)-2 IJP(c)
ACCESSION NR: AR5004574 S/0275/64/000/011/A053/A053
621.384.6
SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodnyy tom, Abs. 11A337 22
AUTHOR: ^{44.55}Stepanchuk, V. P.; ^{44.55}Gulyayev, K. A. B
TITLE: Electronic circuit for protecting the ^{44.55}betatron ^{19.44.55}injector and LM-2 hot-wire
gauge from the atmosphere
CITED SOURCE: Sb. Elektron. uskoriteli. M., Vyssh. shkola, 1964, 368-370
TOPIC TAGS: betatron, betatron injector, hot wire manometer
TRANSLATION: The construction and principal circuit are described of an attachment
to the VIT-1 vacuumeter which ensures quick turn-off of the heating circuit of

corroborated its usefulness.

282
Card 1/1

SUB CODE: NP, EC

ENCL: CO

1 39460-44 (m) 11100

ACC NR: AR6017787

SOURCE CODE: UR/0058/66/000/001/A040/A040

AUTHOR: Stepanchuk, V. P.

TITLE: Electron accelerator 7.5—14.5-Mev microtron

SOURCE: Ref. zh. Fizika, Abs. 1A366

REF SOURCE: Tr. molodykh uchenykh. Saratovsk. un-t. Vyp fiz., Saratov, 1965, 65-74

TOPIC TAGS: electron accelerator, microtron

ABSTRACT: A 7.5—14.5-Mev microtron is described. It is being installed at the Nuclear Physics Laboratory of Saratov University. The operational experience of accelerators described in the literature (RZhFiz, 1962, 2B19; 1963, 11A380) has been used for calculating and design of this microtron. A. Fateyev. [Translation of abstract] [NT]

SUB CODE: 09/

ACC NR: AT7003999

SOURCE CODE: UR/0000/66/000/000/0187/0191

AUTHOR: Stepanchuk, V. P.

ORG: Saratov State University (Saratovskiy gosudarstvennyy universitet)

TITLE: Microtron

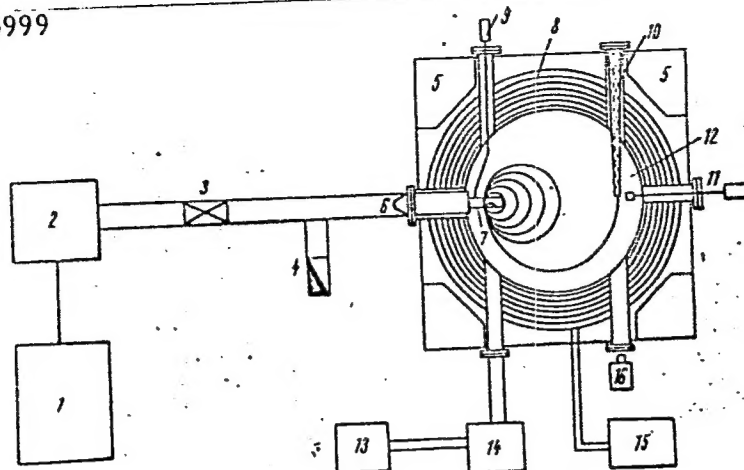
SOURCE: Mezhvuzovskaya konferentsiya po elektronnym uskoritelyam. 5th, Tomsk, 1964. Elektronnyye uskoriteli (Electron accelerators); trudy konferentsii. Moscow, Atomizdat, 1966, 187-191

TOPIC TAGS: microtron accelerator, electron accelerator, *magnetron*

ABSTRACT: The development of a 10-15-Mev microtron accelerator along the lines published in the S. P. Kapitsa works (Zh. eksp. i teor. fiz., v. 40, no. 6, 1961) is reported. A 110-mm gap magnet develops a field up to 2000 oe without saturation. A working vacuum of $(1-4) \times 10^{-5}$ torr can be achieved in 40 min. A standard magnetron oscillator of the 10-cm band ensures 30-50-ma current pulses (at 10 Mev). The remote-controlled accelerator uses a baride-lanthanum cathode with a tantalum heater. Other details are shown in the figure. Orig. art. has: 4 figures.

Card 1/2

ACC NR: AT7003999



Microtron accelerator

1 - modulator, 2 - magnetron, 3 - phase shifter, 4 - water load,
5 - magnetic-circuit uprights, 6 - vacuum window of the waveguide,
7 - resonator, 8 - magnet winding, 9 - resonator-tuning mechanism,
10 - extractor, 11 - movable probe, 12 - magnet pole, 13 - forevacuum
pump, 14 - diffusion pump, 15 - rectifier, 16 - tv camera.

SUB CODE: C)/ SUBM DATE: 06Mar66/ ORIG REF: 002

Card 2/2

STEPANCIC, L.; STRITAR, A.

Analysis of soil by accelerative chemical methods in the People's Republic of Slovenia;
introduction. p. 22.
(GLASNIK, No. 3, 1956 (Published 1957)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

STEFANGIC, D.; STRITAR, A.

Use of phosphatic fertilizers in Western Europe; introduction. p. 29
(GLASNIK, No. 3, 1956 (Published 1957)

SO: Monthly List of East European Accessions (EoAL) IC V-1. 6, No. 12, Dec. 1957
Uncl.

STEPANCIC, D.

Chemical and physical properties of deep and shallow ~~peat~~ soils
in the area of Ljubljansko Barje. Semljiste biljka 12 n. 1/3:
201-212 Ja-D '63.

1. Agricultural Institute of Slovenia, Ljubljana.

STEPANCIC, R.

Survey of examinations of concrete pipes performed in the Institute for the Examination of Materials and Constructions in Ljubljana during the period 1949-1954, p. 22.

(GLASNIK, VOL. 8, No. 41/42, 1956/57

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

12.4000

15.3000

AUTHOR:

Stepančić, Roman

TITLE:

Preventive measures against corrosion of concrete structures and their elements (Materials and corrosion of concrete)

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 1, 1962, 362-363, abstract 1K305 (Nova proizvod., v. 12, no. 1, 1961, 36-41)

TEXT: Maximum consolidation is the principal means of protecting concrete against the effects of water and of salts dissolved in it, alternate freezing and thawing, periodic wetting and drying, and crystallization of salts in the pores due to evaporation of mineralized water. Maximum consolidation is attained by using different types of vibrators, by vacuuming the concrete, by guniting, by the 'rising solution' method, by the use of suitable fillers and by the addition of various plasticizing agents. The optimum granulometric composition of fillers as well as artificial and natural additives are discussed. The plasticizers Darex, Vinsol (USA), Mischöl (Germany), Plastocrete,

Card 1/2

CHUDOZILOV, Igor; VESELY, Arnost; STEPANEK, Bretislav

Pneumatic construction in present building. Stav. vyzkum.
no.5/6:9-13 '62

1. Vyzkumny ustav stavebni vyroby, Prostějov.

*

CHUDOZILOV, I.; STEPANEK, B., inz.; VESELY, A., inz.

Pneumatic constructions in Czechoslovakia. Poz stavby 11 no.1:35-
36 '63.

CHUDOZILOV, Igor; VESELY, A., inz.; DONTTH, L., inz.; STEPANEK, B.,
inz.

Use of overpressure inflated halls in the Czechoslovak building industry. Poz stavby 12 no. 1:42-44 '64.

1. Vyzkumny ustav pozemnich staveb, Prostějov.

CHUDOZILOV, Igor; VESELY, A., inz.; STEPANEK, B., inz.

Important progress in the construction of air-inflated halls. Poz
stavby 12 no.9:382-383 '64.

1. Research Institute of Building Construction, Worksite Prostějov.

Stepanek, F.

Stepanek, F. The standardization of electric equipment and parts manufactured in limited quantities. p. 366.

Vol. 4, no. 12, Dec. 1956
SDELOVACI TECHNIKA
TECHNOLOGY
Czechoslovakia

So. East European Accessions, Vol. 6, May 1957
No. 5

STEPANEK, Frantisek, inz.

Circulation defects of the steam generator of 104 atm., 510 Cels.,
125 t.p.h. Energetika 12 no.1:5-9 Ja '62.

1. VUEZ, Hradec Kralove.

CZECHOSLOVAKIA/Farm Animals - General Problems.

Q-1

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30869

Author : Böhlm Rudolf, Stepanek Ivan

Inst : -

Title : The Weight of Certain Internal Organs of Cattle, Horses
and Hogs
(Ves nekotorykh vnutrennykh organov krupnogo rogatogo
skota, loshdi i svin'i)

Orig Pub : Sbor. vysoke skoly zemed. a Lesn. Brně, 1957, B5, No 1,
5-21.

Abstract : On the basis of the data provided by the meat industry,
the weight of the lungs, heart, liver, kidneys, and
spleen of cattle (cows, heifers, bulls, and steers),
horses, and hogs was ascertained, and the ratio between
the weight of these organs and the body weight of the
respective animals was determined.

Card 1/1

CZECHOSLOVAKIA

STEPANEK, I; ANDRASINA, J; BULIK, J.

1. Institute of Serums and Vaccination Materials, Prague;
2. Scientific Laboratory of the Surgical Clinic of
Safarik University, Kosice

Prague, Collection of Czechoslovak Chemical Communications,
No 8, 1963, pp 2216-2220

"Method of Isolating Human Plasma without Acidic or
Alkaline Denaturing."

UHRÍK, J.; STEPANEK, I.

Use of plasmin in crural ulcer. *Cesk. dermat.* 39 no.4:261-263
Jl '64.

1. Dermato-venerologická klinika lekárskej fakulty UPJS
[University P.J.Šafárika] v Košiciach (prednosta: doc.
dr. E. Maly); Ústav ser a očkovacích látok v Prahe (riaditeľ:
dr. J. Malek) a pobočka v Sarisavých Michalovoch (vedúci: inz.
S. Stefanik).

CZECHOSLOVAKIA

STEPANEK, I.

Institute of Sera and Vaccines, Prague, Dept. Sarisske
Michalany.

Prague, Collection of Czechoslovak Chemical Communications,
No 11, November 1965, pp 3976-3978.

"Studies of the properties of beef thrombin by agar gel
electrophoresis."

STEPANEK, I.; ANDRASINA, J.; STACHY, A.; ROZDOBUDKOVA, V.; MATTOVA, M.

Effect of fibrinolytic preparations isolated from the human
blood plasma on experimental chronic wounds in rabbits.
Bratisl. lek. listy 45 no.9:539-542 15 N '65.

1. Ustav ser a ockovacich latok v Prahe (riaditel MUDr. J. Malek)
pobočka Sarisske Michalany (veduci pobočky inz. S. Stefanik) a
Vedecke laboratorium chirurgickej kliniky Lekarske fakulty Univer-
zity P.J. Safarika v Kosiciach (veduci prof. MUDr. J. Knazovicky).

L 42276-66 T IJP(c)

ACC NR: AP6031477

SOURCE CODE: CZ/0008/66/000/003/0353/0354

AUTHOR: Stepanek, Ivan; Andrasina, Jozef; Rozdobudkova, Viera

ORG: Institute for Sera and Vaccines, Sarisske Michalany (Ustav sera a ockovacich latek Praha pobočka Sarisske Michalany); Scientific Laboratory, Surgical Clinic, P. J. Safarik University, Kosice (Vedecke laboratorium chirurgickej kliniky, Universita P. J. Safarika)

TITLE: Casting form for the preparation of agar films used in infrared spectroscopy

SOURCE: Chemicke listy, no. 3, 1966, 353-354

TOPIC TAGS: IR spectroscopy, laboratory equipment

ABSTRACT: The importance of ²/_{infrared spectroscopy} in the study of biological materials is described. Preparation of agar film with the addition of KBr is discussed. An apparatus made of acrylic plastic is described. The preparation of a film is discussed in detail. Orig. art. has: 1 figure. [JPRS: 36,002]

SUB CODE: 06, 20 / SUBM DATE: 10May65 / SOV REF: 001 / OTH REF: 002

Card 1/1 *bdh*

09/18 2757

Stepanek, J.
CZECHOSLOVAKIA / Chemical Technology. Chemical Products H
and Their Application. Cellulose and
Its Derivatives. Paper.

Abs Jour: Ref Zhur-Khimiya, No 9, 1959, 33566.

Author : Stepanek, J.

Inst : Not given.

Title : The Automatic Regulation of the Consistency of
Paper Pulp.

Orig Pub: Papir a celuloza, 1957, 12, No 2, 36-42.

Abstract: The methods for measuring and regulating the consistency of paper pulp, and the application of supervisory measuring equipment for those purposes, are examined. The construction of functional regulators (particularly, regulations of Arca, Saell and Kacile systems intended for use in paper mills, are described. The criteria for the normal functioning of regulating systems are being established. -- From the author's summary.

Card 1/1

STEPANEK, J.; SAVRDA, K.

"Devices for measuring the area of paper." P. 121.

PAPIR A CELULOSA. (Ministerstvo lesu a drevarskeho prumyslu). Praha,
Czechoslovakia, Vol. 13, No. 6, June 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Uncla.

STEPANEK, J.

Contribution to the theory of automatic control of fibrous
suspension consistency. Sbor cel pap 9:239-276 '64.

KUBIS, T.; STEPANEK, J.; SIMECEK, J.

Measurement of dust in harvesters of the combine and other types.
Pracovní lek. 13 no.7:329-332 S '61.

1. Okresna hygienicko-epidemiologicka stanica, Nitra, riad. MUDr.
J. Stepanek, Ustav hygieny prace a chorob z povolani, Praha, reditel
prof. dr. J. Teisinger.

(AGRICULTURE) (DUST)

STEPANEK, J.

A competition of inventors and rationalizers.

P. 235, (Sdelovaci Technika) Vol. 5, no. 8, Aug. 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EMAI) Vol. 6, No. 11 November 1957

STEPANEK, J.

Inventions and patents. p. 147

TECHNIKA VYKUPU, MLYNARSTVI A PEKARSTVI. (Ministerstvo potravinarskeho
prumyslu a vykupu zemedelskych vyrobku a Sdruzeni mlynu a pekaren)
Praha, Czechoslovakia, Vol. 5, no. 4 Apr. 1959

Monthly List of East European Accessions (EEAI), IC, Vol. 9, no.1, Jan, 1960

Uncl.

STEPANEK, J. (MD)

CZECHOSLOVAKIA

GROSSMANN, J., MD; MALY, V., MD; PAUL, M., MD; SMID, V., MD;
STEPANEK, J., MD.

1. Internal Medicine Ward OUNZ (Interni oddeleni OUNZ), Jihlava (for Smid); 2. Radiological Ward OUNZ (Radiologické oddeleni OUNZ), Jihlava (for Maly); 3. Okres Transfusion Station (Okresní transfúzní stanice), Jihlava (for Paul)

Prague, Praktický lékař, No 13-14, 1963, pp 529-530

"Treatment of Neurological Complications in Acute Leukemia."

(5)

S

CZECHOSLOVAKIA / Human and Animal Morphology (Normal and Pathological). Methods and Techniques of Investigation.

Abs Jour : Ref Zhur & Biologiya, No 9, 1958, No. 40692

Author : Stanek, J.; Koblík, L.

Inst : Not given

Title : An Object Holder of the Microtome for Ultra-Thin Sections

Orig Pub : Ceskosl. morfol., 1955, 3, No 3, 272-273

Abstract : No abstract given

Card 1/1

STEPANEK, Jan; KOZESNIK, Jaroslav, akademik

Directives for increasing the role of workers in the management of work sites of the Czechoslovak Academy of Sciences through the tradeunion organizations. Vestnik CSAV 70 no.1:1-6 '61.

1. Predseda ustredniho vyboru Odboroveho svazu zamestnancu skolstvi, vedy, umeni a tisku (for Stepanek). 2. Hlavni vedecky sekretar Ceskoslovenske akademie ved (for Kozesnik).

STEPANEK, Jan

Improving telephone operational service in the Prague area.
Ca spoje 8 no.3:10-12 Je '63.

1. Mestska telekomunikacni sprava, Praha

SLONIM; Dimitrij, MUDr.; STEPANEK, Jaromir, Dr.

Electron microscopy of purified viruses of tick-borne encephalitis in Czechoslovakia. IV. Cesk. epidem. mikrob. imun. 5 no.4:173-177 July 56.

1. Z Ustavu lekárske mikrob. a imunologie KU v Praze, predn. prof. MUDr. Frantisek Patocka. Z laboratore pro elektronovou mikroskopii v biologii CSAV v Praze, predn. prof. MUDr. Jan "olf.
(ENCEPHALITIS, EPIDEMIC, viruses,
Czech. tick-borne encephalitis virus, electron
microscopy (Cz))
(MICROSCOPY, ELECTRON,
of encephalitis virus, tick-borne strain isolated
in Czech. (Cz))

STEPANEK, Jaromir, dr., inz.

Kits for making radio receivers. Sdel tech 10 no.6:225-226
Je '62.

KURČKA, V.; SRAJBE, F.; KLIKA, E.; POHOREK, M.; STEFANEK, J.

Some properties of the Motol virus. Postepy mikrobiol 2
no.2:185-196 '63.

1. Institute of Epidemiology, Microbiology, and Hygiene,
University, Prague.

CHADURA, A.; STEJANEA, J.

Submicroscopic structure of enamel cuticle. Cesk. stomat. 66
no.1:65-70 Ja '66.

1. Vyzkumny ustav stomatologiccky v Praze (reditel prof. dr.
J. Kostlan) a laborator pro elektronovou mikroskopii a experi-
mentální morfologii Československé akademie věd v Praze
(vedoucí akademik J. Wolf).

STEPANEK, Jaroslav

Second National Conference of the Section for Mining and Fuels
of the Czechoslovak Scientific Technical Society. Geol pruzkum
5 no.6:186 Je '63.

STEPANEK, Jaroslav

Second Conference on Petroleum Geology. Geol pruzkum 5 no.6:
187-188 Je '63.

STEPANEK, Jaroslav

Conference on new measurement and mapping techniques. Geol
pruzkum 5 no.6:139 Je '63.

STEPANEK, Jaroslav

Conference of the socialist work brigades from chemical
laboratories. Geol pruzkum 5 no.8:252 Ag '63.

STEPANEK, Jaroslav

Conference on stone material. Geol pruzkum 5 no.8:254 Ag '63.

STEPANEK, Jaroslav

Conference on new technology in building geology. Geol
pruzkum 5 no.8:253-254 Ag '63.

STEPANEK, Jaroslav

Third conference on the mine surveying, geophysics, and
geometry of mineral deposits. Geol Pruzkum 5 no.11:349 N '63.

HOZA, Frantisek, inz.; STEPANEK, Jaroslav

New exhibits of the socialist countries at the Brno
International Fair. Geol pruzkum 5 no.12:377-379 D '63.

STEPANEK, Jaroslav, nositel vyznamenani "Za vynikajici praci".

International symposium on the origin of postmagnetic ore
formation. Geol pruzkum 5 no.12:366-370 D '63.

STEPANEK, Jaroslav, nositel vyznamenani Za vynikajici praci.

Reflections on the five annual volumes of the periodical
"Geologicky pruzkum." Geol pruzkum 6 no.1:1-2 Ja'64.

HOZA, Frantisek, inz.; STEPANEK, Jaroslav

New products exhibited by the capitalist countries at the
Brno International Fair. Geol pruzkum 6 no.1:22 Ja'64.

STEPANEK, Jaroslav

Conference of geologists. Geol pruzkum 6 no.2:61 F'64

STEPANEK, Jaroslav

Waterworks on the Danube. Geol pruzkum 6 no.5:155 My '64.

STEJNEK, Jaroslav

National conference of geologists in Prno. Geol. problem 7 no. 3
28 Ja '65.

STEFANEK, Jaroslav

Two hundred years of the Academy of Mining in Banska Stiavnica.
Geol pruzkum 6 no.10:316-318 O '64.

STEPANEK, Jaroslav

Ranger VII, the surface of the moon and the construction of
landing mechanisms. Geol pruzkum 6 no.12:373-379 D 164.

PLACKOVA, A.; KOSTLAN, J.; STEPANEK, J.

Submicroscopic structure of disturbances in calcification and of incipient caries. Electron microscopic study. Cesk. stomat. 65 no.2:81-84 Mr '64

1. Vyzkumny ustav stomatologicky v Praze (reditel - prof. dr. J. Kostlan); Laborator pro elektronovou mikroskopii a experimentalni morfologii Ceskoslovenske akademie ved v Praze (vedouci akademik J. Wolf).

KRUMPHANZL, Jaroslav, inz.; STEPANEK, Jiri

Electromagnetic flowmeters. Papir a celuloza : 9 no.12:325-329
D '64.

1. Research Institute of Paper and Cellulose, Worksite, Prague.

STEPANEK, Jiri, MUDr.

Some experience with etiology of psychoneuroses in women.
Vnitr. lek., Brno 1 no.1:48-54 Jan 55.

1. Ze Statni lecebny psychiatricke v Jihlavy-reditel
Dr. V. Kotina (zenske oddeleni-prin. Dr. M. Slofova)
Jihlava, St. psychiatricka lecebna.
(NEUROSES, etiology and pathogenesis
in women.)

STEPANEK, Jiri

A chronic psychiatric department after a year's collective use of
neuroplegics. Cesk. psychiat. 58 no.2;125-126 Ap '62.

1. Psychiatricka lecebna v Jihlave.

(CHLORPROMAZINE therapy) (RESERPINE therapy)
(PSYCHOSES therapy)

STEPANEK, Jiri; KRUMPHANZL, Karel

Noncontact measurement of the surface temperature of drying cylinders. Sbor cel pap 8:231-253 '63.

ORT, Jan; STEPANEK, Josef

Cutaneous hemorrhagic necrosis following the application of pelentan.
Cas. lek. cesk. 101 no.35:1075-1076 31 kg '62.

1. Chirurgické oddělení OUNZ ve Vrchlabí, přednosta MUDr. A. Hruska.
(ETHYL BISODIUMACETATE) (DERMATOLOGY) (HEMORRHAGE)

Biotite-pyroxene-syenite from Jihlava. JOS. ŠRÁPKA. *Zprávy Komise Přírod.
Výzkum Moravy-Slezka Oddělení Mineral.* 3, 1-38(1930); *Neues Jahrb. Mineral. Geol.*
1931, II, 238-40—Three rock analyses are included.

F. F. SCHAIKIN

100

7

Simplified separation of 2,4,6 trinitrobenzoic and picric acids C. Kraus and I. Stjepanek, *Chem. Zvesti* 9, 147-8, 1958 in English; PK47-271 C 1 23, 11.00. Owing to the fact that nitron does not react with HNO₃, whereas it ppt. picric acid quantitatively, the original Kraus-Turek method was simplified as follows. Mix 10 cc alc. soln. contg. 2,3-trinitrobenzoic acid (I) and not more than 3% picric acid (II) with 25 cc. 10% AgNO₃ soln. in 50% alc. and allow to stand for 24 hrs. at room temp. Filter, wash the ppt. at first with 10 cc. 90% alc. and then with 20 cc. H₂O, dry at 50-60° and weigh as AgCl. NO₃CO₂Ag. This gives the amt. of I. Pour the yellow filtrate (contg. II) quantitatively into a volumetric flask of 200-250 cc., mix with a few drops of 50% H₂SO₄, fill to full vol. with 90% alc. and let stand for 30 min. Measure off 25 cc. of the clear liquid into a small beaker, mix with nitron acetate soln. (prepd. by dissolving 0.4 g. nitron in 4 cc. 5% AcOH and dilg. with 20 cc. 90% alc.) and cool thoroughly in ice H₂O for 1-2 hrs. Filter the ppt., wash with 20 cc. 90% cool alc., dry at 110° and weigh as nitron picrate, C₁₀H₅NO₆·OH·C₆H₃N₃. J. K.

ASD 514 DETAILING LITERATURE CLASSIFICATION

CA

PROCESSED AND PROPERTIES REPORT

Preparation of tetranitromethane. Cyril Kraus and Josef Stepanek, Chem. Abstr. 10, 137-40 (in English 140) (1935). The method of Schenk has been improved to yield over 86% of theory in the following way: Add quite slowly on stirring and cooling with ice 100 parts Ac_2O to N_2O_5 , freshly prepd. by distg. 65 parts of fuming HNO_3 (d. 1.525) with 25 parts P_2O_5 . Allow the mixt. to stand for 24 hrs. in ice water and at lab. temp. for 8 days and at the end of this period pour into an excess (at least 10 parts) of cold water. Immediately sep. the oil, wash with 0.5% aq. $NaHCO_3$ and then with pure water, dry with anhyd. Na_2SO_4 and freeze out at about 13° . Yield, 95%. K. and S. tried to prep. $C(NO_2)_4$ by nitration of Me_3CO and obtained a very explosive Ag compd., considered as the Ag salt of acetylacetylacetic acid. J. K.

ASACSLA METALLURGICAL LITERATURE CLASSIFICATION

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1300 1400 1500

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1900 2000 2100

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1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
<p>BC</p> <p style="text-align: right;">a 3</p> <p style="text-align: center;"> Chemical properties of tetranitromethane, and its probable constitution. C. KRAUS and J. STAPANEK (Chem. Abstr., 1936, 11, 142-155; Chem. Zentr., 1937, I, 1923; cf. A., 1937, II, 43).—C(NO₂)₄ has m.p. 13°, b.p. 126°. Its reactions indicate the constitution (NO₂)₂CNO-O-NO. A. J. E. W. </p>																			
<p>ABB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>										<p>E-2</p>									
<p>10000 STAINLESS</p>										<p>10000 WIP ONLY GAC</p>									
<p>10000 "A"</p>										<p>10000 WIP ONLY GAC</p>									

BC

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

12 31-85

Determination of tetranitromethane. C. K. KRAUS and J. M. SCHAEFER (Chem. Abstr., 1937, 12, 81-85).—In neutral aq. solution 1 mol. of C(NO)_2 reacts with KI exactly, and this is limited with standard $\text{Na}_2\text{S}_2\text{O}_3$. About 5 hr. are required for a determination. In an acid medium secondary reactions cause a higher separation of I_2 , so that 1 mol. of C(NO)_2 $\rightarrow 2\text{KI} + \text{I}_2$, where I_2 increases linearly with the acidity of the solution titrated. The acidity must be determined by a separate titration. In presence of NaHCO_3 owing to secondary reactions the separation of I_2 never reaches the theoretical and results of titration must be corrected from a graph constructed from empirical results. The time of reaction in a neutral medium may be reduced to 10–15 min. with an accuracy of determination of $\pm 0.2\%$ by using NaOH solution, where, owing to partial oxidation of KI by C(NO)_2 , a correction must be applied.

P. R.

ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

12 31-85

BB

8-1

Polyvan rust-protective agents. J. Stepanek (*Prakt. Chem.*, 1982, 3, 31-33). The protective agents, which may be added in low concn, ~0.3%, to paints or used in aq. solution as inhibitors, consist of mixtures of a metal peroxide, e.g., CaO_2 , with an unspecified, organo-metallic compound which catalyzes addition of O_2 to the peroxide. In contact with Fe, O_2 is liberated in a polyatomic form which has a strong passivating effect. Polyvan paints are not weather- or acid-proof. O. D. SALTMAKSH

STEPANEK, J.

①
✓ Effect of surface irregularities on the anti-corrosive properties of paint films. J. Stepanek (*Prakt. Chem.*, 1953, 4, 79-83).—The unsatisfactory results obtained with many anti-corrosive paints are due to irregularities found on most iron and steel surfaces, which are too small (10^{-8} – 10^{-3} cm.) to be penetrated by the protective pigments found in the paint. The cavities contain moisture and air and are merely covered over by the paint film; for proper protection, use of a passivating solution capable of completely filling the pores is necessary, as well as an anti-corrosive coat and a covering coat. Various org. solvents, with $\eta < 1$ centipoise, and surface tension < 30 dynes/cm. with zero contact angle, proved suitable. Two formulations for passivating solutions are given and the results of tests are described.
H. KERNER.

STEPANEK, I.

✓ Electrical measurement of rusting and corrosion of metals.
I. Stepanek (*Prakt. Chem.*, 1955, 8, 191-194, 196-199).—The instrument described indicates the current flowing between a "noble" electrode (oxidised or Rh-plated Cu) and the metal under test in g.-equiv. per sq. m. per day. Readings are taken until they approach constancy. The electrolyte may be water in equilibrium with the atm., or a saline solution, etc. The protective

effect of paints, inhibitors, etc., can be tested. (Cf. Brit. Abstr., B, 1952, I, 147, 980.)
A. R. PEARSON.

DI
MGT

SILPANEK, JOSEF

CZECHOSLOVAKIA/Atomic and Molecular Physics - Heat

D-4

Abs Jour : Ref Zhur - Fizika, No 7, 1958, No 15397

Author : Stepanek Josef, Standart George

Inst : Not Given

Title : Heat Transfer Upon Condensation of Mixture of Vapors of Immiscible Liquids

Orig Pub : Chem. listy, 1957, 51, No 12, 2163-2178

Abstract : No abstract

Card : 1/1

CZECHOSLOVAKIA / Chemical Technology. Chemical Prod- H-2
ucts and Their Application. Chemical
Engineering.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1510.

Author : Stepanek, J., Standart, G.

Inst : ~~Not given.~~

Title : Heat Transfer in the Condensation of the Vapor
Mixture of Immiscible Liquids.

Orig Pub: Chem listy, 1957, 51, No 12, 2163-2178; Collect.
czechosl. Chem. commun., 1958, 23, No 6, 995-1012.

Abstract: The condensation of a mixture of water vapor with
vapors of benzene, toluene, chloroform and dich-
loroethane, with the formation of a two-phase
condensate in a horizontal laboratory condenser
one meter high has been investigated. The given
equation is:

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CZECHOSLOVAKIA / Chemical Technology. Chemical Prod- H-2
ucts and Their Application. Chemical
Engineering.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1510.

Abstract: $\lambda = 0.725 (R \lambda_2^3 / \lambda_1^2)^{1/4} (\mu \Delta t a)^{-1/4} K_1 (1 + K_2 \Delta t)$,

where the correction coefficients are

$K_1 = [1 - 4.38 \cdot \sqrt{(1-a)a}]^{0.033} (\lambda_2 / \lambda_1)^{0.62} \times$
 $(\Delta t / \lambda_1)^{3.2 \cdot \frac{1}{4}}$ and

$K_2 = 0.0584 \sqrt{a(1-a)} \cdot (\lambda_2 / \lambda_1)^{0.5} (\lambda_1 / \lambda_2)^{1/4}$

$(\Delta t / \lambda_1)^{1.6}$, where R is the heat of condensation to the mixture (per unit weight of organic liquid) in kilocalories/kilogram; λ is the heat conductivity of water in kilocalories per meter degree; λ_2 is the heat conductivity of an organic

Card 2/3

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and Their Application. Chemical Engineering. H-2

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1510.

Abstract: liquid in kilocalories per meter per degree; γ_1 is the specific gravity of water in kilograms/cubic meter; γ_2 is the specific gravity of an organic liquid in kilograms/cubic meter; η is the viscosity of an organic liquid in kilograms/second/square meter, Δt is the difference in temperature of vapor and pipe wall; d is the pipe diameter in meters; a is the ratio of weights of organic liquid to water in kilograms/kilogram; σ is the surface tension of water in kilograms/meter; $\Delta \sigma$ is the difference in surface tension of water and organic liquid in kilograms/meter. It is mentioned that the accuracy of the equation is 7%. --
M. Ryba.

Card 3/3

Distr: 4E2c(j)

✓ S-(2-Cyanoethyl)isothiuronium derivatives. Josef Štěpánek and Věra Černá. Czech. 89,494, Apr. 15, 1958. Cyanoethylation of thiourea or its derivs. with acrylonitrile (I) and HCl gives cryst. title compds. used as *vulcanizers of rubber* and intermediary products in the synthesis of drugs and thio compds. Thus I 25, CS(NH₂)₂ 40, and EtOH 200 added to 35% HCl 65 parts, the mixt. refluxed 20-30 min. and cooled gives 80-90% needles of S-(2-cyanoethyl)isothiuronium chloride, m. 165.5-6.0°. Similarly is obtained the bromide, m. 177°, and iodide, m. 132°, in 60-80% and 60% yield, resp.

L. J. Urbánek

4
1/-99 (NA)
1

1. 1978, 1979, 1980, 1981

Heat transfer in drop condensation and its effect on silicon
varnish. Chem. (un. 1), no. 9, 1980, 1981.

1. Chair of Processes and Machines, Higher School of Chemical
Technology, Prague.

L 34700-65 EFT(n)-2/EWP(j)/EWT(1)/EWT(m) Pc-4/Pu-4 RM/WH

ACCESSION NR: AP4045165

Z/0009/64/000/009/0478/0480 21

AUTHOR: Hlavacek, Vladimir (Glavachek, Vladimir);
Stepanek, Josef (Shtepanek, Yozef)

20
B

TITLE: Heat transmissi²¹on during drop condensation on silicone varnish

SOURCE: Chemicky prumysl, no. 9, 1964, 478-480

TOPIC TAGS: heat transmission, silicone varnish, heat transfer coefficient, heat flow coefficient, thermal characteristic, drop condensation

ABSTRACT: Experiments made to determine the possibility of using silicone varnishes on condensers have shown that drop condensation on silicone varnish takes place with a high value of heat transmission coefficient. It may be assumed that

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ACCESSION NR: AP4045165

present investigation the coefficients of heat flow were determined on a laboratory installation one quarter full operating size, and it was shown visually, as well as by the determination of the heat transfer coefficients on the condensing vapor side, that drop condensation occurs on silicone varnish. Two electrically heated boilers of 13 kw required power constituted the experimental installation. The value of the heat transfer coefficient was computed by the Wilson method. Condensation took place on a $20,000 \text{ kcal/m}^2 \text{ h } ^\circ\text{C}$ silicone tube and on an unpainted

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L 34700-65

ACCESSION NR: AP4045165

silicone varnishes on the heat flow coefficient is even more marked. Orig. art.
has: 6 diagrams and 11 formulas.

ASSOCIATION: Katedra procesu a aparatu VSCHT, Prague (Department of Processes
and Apparatus, VSCHT)

SUBMITTED: 10Dec63

ENCL: 00

SUB CODE: MT, TD

NO REF SOV: 000

OTHER: 014

STEPANEK, Josef (Prague)

A creative trade with a tradition of one-thousand years. Sklar
a keramik 15 no.2:46 F '65.

KRALOVA, L. (Praha 4-Pankrac, nam, Hrdina 8); JEZEK, V.; LINHARTOVA, J.;
STEPANEK, J.

Occurrence of ischemic heart disease in chronic cor pulmonale
and possibilities of its recognition. Cas. lek. c esk. 104
no.24:654-658 18 Je'65.

1. II. interni klinika fakulty vseobecneho lekarstvi Karlovy
University v Praze (prenostat: prof. dr. F. Herles, DrSc.)
a Kardiologicka laborator fakulty vseobecneho lekarstvi Karlovy
University v Praze (vedouci: prof. dr. F. Herles, DrSc.).

STEPANEK, J.; KORBELAR, J.

A few remarks concerning diuretic treatment. Cas. lek. cesk. 104
no.24:662-665 18 Je '65.

1. II. interni klinika fakulty vseobecneho lekarstvi Karlovy
University v Praze (prednosta: prof. dr. F. Herles, DrSc.).

CZECHOSLOVAKIA

BARTON, V.; BRZIZNOVA, V.; BURIAN, M.; ~~HRADCEKY, M.~~; MIKULECKY, B.;
STEPANEK, J.; Research Institute of Mathematical Machines, Prague.
[Orig. version not given].

"The Problem of Assimilating Complicated Stimuli During Sleep."

Prague, Activitas Nervosa Superior, Vol 8, No 2, Jun 66, pp 208-209

Abstract: EEG recordings of 20 subjects who received a series of 25 or 50 single words in a foreign language (mostly Japanese) with a Czech translation during sleep are discussed. The probability of influencing the learning process through imprinting of individual words during sleep seems very low. There were changes in the EEG recordings caused by whether the subject knew or did not know the word which he heard during the sleep. No references. Submitted at the 4th Conf. of Exper. and Clin. Study of Higher Nerv. Functions at Mar. Laue, 12-15 Oct 65. Article is in English.

1/1

- 57 -

STEPANEK, J. M.

7
 Determination of acrylonitrile in various materials. I.
 M. Štěpánek, V. M. Černá, and V. J. Patková (Inst. Hyg.,
 Šrobárova, Prague). *Analyst* 84, 85-8 (1959).—Acrylo-
 nitrile (I) in trace amts. is detd. in waters, foodstuffs, grains,
 etc., by a previously described procedure (C.A. 52, 18094i),
 following concn., purification, and sepn. by distn. of an
 azeotrope pair with iso-PrOH which has the compn.: 56%
 by weight of I and b. 71.7°. Under the conditions of the
 test, the azeotrope is collected at 78°. Bernard M. Blank.

3 May
 4E 2c 4p

J. J.

STEPANEK, K.

"Sulfuration." p. 869 (STROJIRENSTVI. Vol. 4, No. 11, Nov. 1954;
Praha, Czech.)

So: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 4, April 1955, Uncl..

25.6000

Z/032/60/000/02/015/023
E073/E535

AUTHOR: Stepanek, K., Engineer, Candidate of Technical Sciences,
State Prize Winner

TITLE: Magnetic Measuring Devices¹⁴

PERIODICAL: Strojirenství, 1960, Nr 2, pp 139-149

ABSTRACT: Magnetic devices for measuring lengths are a relatively new means for high accuracy measurement of a wide range of lengths. They can be applied for: manufacturing indexing standards, angle measurements, measuring the accuracy of transmission systems, measuring the accuracy of toothed gears. Each of these categories are dealt with separately. The circular magnetic measuring device consists of a metal disc, which is provided on the circumference with a layer which is suitable for magnetic recording (Fe_2O_3 , Fe_2O_4 or a special CuNiFe alloy). Onto this layer a sinusoidal magnetic field of a uniform wavelength with a certain number of magnetic waves is recorded. If this magnetic indexing plate is compared with a mechanically graduated indexing plate, the length of the magnetic wave will correspond to the distance of two adjacent graduations. The basic difference is that Card 1/4 the magnetic indexing is continuous and any part of the

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E073/E535

Magnetic Measuring Devices

wave can be utilised, whilst mechanical graduations are discrete and can be read only in the static state. The accuracy of sub-division of magnetic circular measuring devices can be improved by various means and some of these are discussed. Angular measurements can be effected with similar magnetic indexing plates. Figs 5 and 8 show diagrammatic sketches of two different set-ups for dynamic measurement of angles, by means of which it is possible to achieve a sensitivity of 0.5° phase shift, which corresponds to an angular sensitivity of about $1/12^{\text{th}}$ of a second. Figs 6, 7 and 9 show photographs of magnetic indexing instruments. On the basis of the here described principles, the following instruments have been built: an indexing table for a jig boring machine and a universal workshop indexing head. Much attention is paid to measuring the accuracy of gear transmissions. The here described principles of magnetic measurement have been utilised for developing the instrument IMO-S (see photos, Figs 14 and 15) for measuring the accuracy of indexing transmissions. The equipment is portable and can be used

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E073/E535

Magnetic Measuring Devices

for measuring directly on the machines. It enables automatic recording of the kinematic, the total and the cyclic errors in all transmissions within the range of 1:50 to 1:1000 with an accuracy of about 0.5 sec. It permits verifying the transmission accuracy between the table (worm wheel) and the worm, the spindle or any other element of the kinematic chain. Various recorded accuracy curves are reproduced which were obtained by measurements on milling machines of Czech and foreign manufacture. Furthermore, simple and perfect correction equipment was developed for automatic correction of the total and the cyclic errors in transmissions in both directions of rotation by accelerating and decelerating the worm. A drawing of such a correction device is shown in Fig 20 and it is used in a milling machine as illustrated by a photo, Fig 21. Figs 22a and 22b show measured values of the accuracy of milling machines fitted with such a correction device. Similar measuring instruments, IMO-200 and IMO-32 were developed and are being manufactured for measuring the accuracy of large gears and for measuring the accuracy of unilateral

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E073/E535

Magnetic Measuring Devices

generation of small and medium size toothed gears. Magnetic measuring devices can also be used for measuring torsional deformations, for determining the efficiency of heavy turbo-compressors, for measuring torsional oscillations, revolutions etc. However, the main field of application of these measuring devices is in the manufacture of gears, where such devices enable considerable improvement in accuracy, and in angular measurements, since magnetic devices enable building modern high precision indexing machines. At the 1959 Brno Engineering Fair the here described metering apparatus, IMO-200 and IMO-S were exhibited, whereby the latter was exhibited together with the hobber TOS OF 10, which was equipped with a correction device so that it could be seen to what extent this apparatus improves the accuracy. This equipment greatly impressed foreign manufacturers of gear cutting machinery. There are 27 figures.

ASSOCIATION: VÚOSO, Prague

Card 4/4

STEPANEK, K.

"Precision control of gearing teeth-making machinery." p. 448.

TECHNICKA PRACA. (Rada vedeckych technickych spolocnosti pri Slovenskej akademii vied). Bratislava, Czechoslovakia, Vol. 11, No. 6, June 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Uncla.

~~STEPANEK~~, K. [Stepanek, K.] (Chekoslovatskaya Sotsialsticheskaya
Respublika)

Measuring and increasing the precision of gear-cutting machines.
Stan. i instr. 31 no.9:18-23 S '60. (MIRA 13:9)
(Gear-cutting machines)

STEPANEK, K.;RYDVAIOVA, A.

Butylpyrine in clinical and ambulatory practice. Cas. lek. cesk. 92 no.
41-42:1151-1154 16 Oct 1953. (CJML 25:4)

1. Of the Rheumatological Department (Head--Prof. K. Prerovsky, M.D.)
of State District Hospital, Prague-Bulova and of the Clinical and
Chemical Department of the Control Institute of Pharmaceutics, Prague.

STEPANEK, Karel

~~SECRET~~
Balneotherapeutic use of iodinated naphtha waters. Cas. lek. cesk.
96 no.29:934-937 12 July 57.

1. Vykunny ustav balneologicky, uracoviste v Praze, reditel prof.
MUDr E. Prerovsky.

(BALNEOLOGY,

Iodinated naphtha water baths (Cz))

L 30914-66 EWT(m)/ETC(f)/T

ACC NR: AP6022913

SOURCE CODE: CZ/0038/66/000/001/0020/0020

AUTHOR: Kotrnoch, Josef; Stepanek, Karel

ORG: Nuclear Power Station, Skoda Plant, Plzen (Zavod Jaderne elektrarny, Skoda)

TITLE: Investigation of gas mixing in a bundle of fuel rods

SOURCE: Jaderne energie, no. 1, 1966, 20

TOPIC TAGS: gas flow, nuclear reactor component

ABSTRACT: The article is an abstract of the authors' report No Ae 696/Dok. Mixing of gases flowing parallel to a bundle of rods 15 mm dia was investigated. The experiments were made at a pressure of 7 kg/m² and at 70°C. The method used is based on the application of Freon 12. Curves of constant concentration of freon are shown in the original report. [JPRS]

SUB CODE: 18 / SUBM DATE: none

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UDC: 621.039.5 A1 621.039.534.34

STEFANER, L.

Experiences from the flooded areas. p. 70.

Vol. 5, no. 12, Dec. 1954
VODNI HOSPODARSTVI
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

STEPANEK, L.

Green vegetation around man-made lakes. p. 422.

VODNI HOSPODARSTVI. (Ministerstvo energetiky a vodního hospodářství a
Vědecká technická společnost pro vodní hospodářství) Praha, Czechoslovakia.
No. 10, Oct. 1959.

Monthly List of East European Accessions (EEAL) LC, Vol. 8, No. 11,
November 1959.

Uncl.

STEPANUK, L.

Threshing of grain with flails in the region of Hromov. p. 224

CESKY LID, (Ceskoslovenska akademie ved. Ustav pro etnografii a folkloristiku)
Praha, Czechoslovakia

Vol. 46, No. 5, 1959

Monthly list of East European Accessions (TEAI) LC. EOL. 9, No. 1. January 1960
Uncl.

14
Application of Type OH Hydraulic Presses (in) Cold Extrusion of Steel, O. Stěpánek. (Czech. Heavy Ind., 1958, (5) 31-37). The presses and tools, their operation and lubrication are described in an account illustrated with 13 diagrams.

HM

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